CLAIMS

- A grid array signal conducting arrangement comprising at least one differential grid array
- 2 conductor pair and at least one non-differential grid array conductor pair, the at least one differential
- 3 grid array conductor pair having portions thereof which are more closely spaced in comparison to a
- 4 spacing of corresponding components in the at least one non-differential grid array conductor pair.
- 2. A grid array signal conducting arrangement as claimed in claim 1, where the grid array
- 2 signal conducting arrangement is provided in a grid array connector provided on at least one of a
- 3 receiving substrate and a semiconductor package.
 - 3. A grid array signal conducting arrangement as claimed in claim 1, where the grid array
- 2 signal conducting arrangement conducts at least one differential pair signal.
- A grid array signal conducting arrangement as claimed in claim 3, where the grid array
- 2 signal conducting arrangement provides at least one of greater coupling and greater common noise
- 3 between the differential and array conductor pair than the non-differential and array conductor pair.
- 5. A grid array signal conducting arrangement comprising:
- at least one differential grid array conductor pair and at least one non-differential grid array
- 3 conductor pair; and
- 4 means for providing noise rejection capability in the grid array signal conducting
- 5 arrangement.

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- A grid array signal conducting arrangement as claimed in claim 5, where the grid array
 - 2 signal conducting arrangement is provided in a grid array connector provided on at least one of a
 - 3 receiving substrate and a semiconductor package.
 - 7. A grid array signal conducting arrangement as claimed in claim 5, where the grid array
 - 2 signal conducting arrangement conducts at least one differential pair signal.
 - A grid array signal conducting arrangement as claimed in claim 7, where the grid array
 - 2 signal conducting arrangement provides at least one of greater coupling and greater common noise
 - 3 between the differential grid array conductor pair than the non-differential grid array conductor pair
 - 9. An electrical component comprising:
 - at least one of a receiving substrate and a semiconductor package; and
 - a grid array signal conducting arrangement comprising at least one differential grid array
 - 4 conductor pair and at least one non-differential gnd array conductor pair, the at least one differential
 - 5 grid array conductor pair having portions thereof which are more closely spaced in comparison to a
 - 6 spacing of corresponding components in the at least one non-differential grid array conductor pair.
 - 1 10. An electrical component as claimed in claim 9, where the grid array signal conducting
 - 2 arrangement conducts at least one differential pair signal.
 - 1 11. An electrical component as claimed in claim 10, where the grid array signal conducting
- 2 arrangement provides at least one of greater coupling and greater common noise between the

- 3 differential grid array conductor pair than the non-differential grid array conductor pair.
- 12. A mounted electrical component arrangement comprising:
- 2 a plurality of electrical components; and
- 3 a grid array signal conducting arrangement comprising at least one differential grid array
- 4 conductor pair and at least one non-differential grid array conductor pair, the at least one differential
- 5 grid array conductor pair having portions thereof which are more closely spaced in comparison to a
- 6 spacing of corresponding components in the at least one non-differential grid array conductor pair.
 - 13. A mounted electrical component arrangement as claimed in claim 12, where the grid array
- 2 signal conducting arrangement is provided in a grid array connector provided on at least one of a
- 3 receiving substrate and a semiconductor package.
- 1 14. A mounted electrical component arrangement as claimed in claim 12, where the grid array
- 2 signal conducting arrangement conducts at least one differential pair signal.
- 15. A mounted electrical component arrangement as claimed in claim 14, where the grid array
- 2 signal conducting arrangement provides at least one of greater coupling and greater common noise
- 3 between the differential grid array conductor pair than the non-differential grid array conductor pa
- 1 16. A method of increasing noise rejection capability of a grid array signal conducting
- 2 arrangement comprising:
- 3 orientating electrical conductive parts in the grid array signal conducting arrangement that

- 4 conduct differential signals so as coupling distance between at least one pair of differential signals
- is less than coupling distance between at least one pair of non-differential signals; and
- 6 conducting at least one pair of differential signals through the electrical conductive parts.
- 17. A method as claimed in claim 16, where the grid array signal conducting arrangement is
- 2 provided in a grid array connector provided on at least one of a receiving substrate and a
- 3 semiconductor package.